



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/688,222	10/16/2000	ANDREW PETER BRADLEY	169.1865	1392
5514	7590	03/25/2005	EXAMINER	
FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112			MARIAM, DANIEL G	
			ART UNIT	PAPER NUMBER
			2621	

DATE MAILED: 03/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

SUPPLEMENTAL EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Carl B. Wischhusen on 3/22/2005.

The application has been amended as follows:

20. (Previously Presented) The method according to claim 19, wherein the universal interpolation kernel is of the form:

$$h(s_x, s_y)_{0 \leq \theta \leq \pi/2} = \frac{1}{\sqrt{2}} \left\{ h\left((1 - 2\theta/\pi)s_x + (2\theta/\pi)s_y\right)_{c=0.5} \bullet h\left((2\theta/\pi)s_x + (2\theta/\pi - 1)s_y\right)_{c=0} w(\theta) \right\}$$

$$h(s_x, s_y)_{\pi/2 < \theta < \pi} = \frac{1}{\sqrt{2}} \left\{ h\left((2\theta/\pi - 1)s_x + (2\theta/\pi - 2)s_y\right)_{c=0.5} \bullet h\left((2\theta/\pi - 2)s_x + (1 - 2\theta/\pi)s_y\right)_{c=0} w(\theta) \right\}$$

wherein $h(s)$ is defined as:

$$h(s) = \begin{cases} 1, 0 \leq |s| \leq d \\ \left(2 - \frac{3}{2}b - c\right) \left|\frac{s-d}{1-2d}\right|^3 + (-3 + 2b + c) \left|\frac{s-d}{1-2d}\right|^2 + \left(1 - \frac{1}{3}b\right), d < |s| \leq 1-d \\ 0, 1-d < |s| \leq 1+d \\ \left(-\frac{1}{6}b - c\right) \left|\frac{s-3d}{1-2d}\right|^3 + (b + 5c) \left|\frac{s-3d}{1-2d}\right|^2 + (-2b - 8c) \left|\frac{s-3d}{1-2d}\right| + \left(\frac{4}{3}b + 4c\right), 1+d < |s| \leq 2-d \\ 0, \text{Otherwise} \end{cases}$$

and wherein $s = t / \Delta t$ and $0 \leq d < 0.5$.

Art Unit: 2626

56. (Previously Presented) The computer readable medium according to claim

55, wherein the universal interpolation kernel is of the form:

$$h(s_x, s_y)_{0 \leq \theta \leq \pi/2} = \frac{1}{\sqrt{2}} \left\{ h\left((1 - 2\theta/\pi)s_x + (2\theta/\pi)s_y\right)_{c=0.5} \bullet h\left((2\theta/\pi)s_x + (2\theta/\pi - 1)s_y\right)_{c=0} w(\theta) \right\}$$

$$h(s_x, s_y)_{\pi/2 < \theta < \pi} = \frac{1}{\sqrt{2}} \left\{ h\left((2\theta/\pi - 1)s_x + (2\theta/\pi - 2)s_y\right)_{c=0.5} \bullet h\left((2\theta/\pi - 2)s_x + (1 - 2\theta/\pi)s_y\right)_{c=0} w(\theta) \right\}$$

wherein $h(s)$ is defined as:

$$h(s) = \begin{cases} 1, 0 \leq |s| \leq d \\ \left(2 - \frac{3}{2}b - c\right) \left|\frac{s-d}{1-2d}\right|^3 + (-3 + 2b + c) \left|\frac{s-d}{1-2d}\right|^2 + \left(1 - \frac{1}{3}b\right), d < |s| \leq 1-d \\ 0, 1-d < |s| \leq 1+d \\ \left(-\frac{1}{6}b - c\right) \left|\frac{s-3d}{1-2d}\right|^3 + (b + 5c) \left|\frac{s-3d}{1-2d}\right|^2 + (-2b - 8c) \left|\frac{s-3d}{1-2d}\right| + \left(\frac{4}{3}b + 4c\right), 1+d < |s| \leq 2-d \\ 0, \text{Otherwise} \end{cases}$$

and wherein $s = t / \Delta t$ and $0 \leq d < 0.5$.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark E. Wallerson whose telephone number is (703) 305-8581.

The examiner can normally be reached on Monday-Friday - 6:30-4:00.

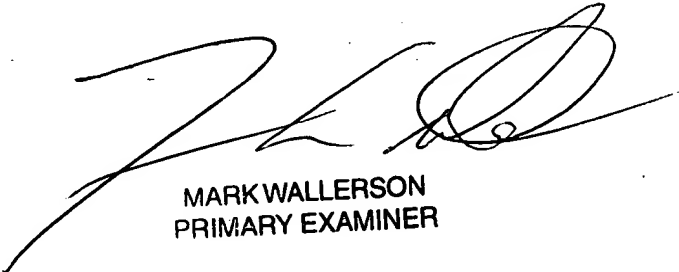
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly Williams can be reached on (703) 305-4863. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2626

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mark E. Wallerson
Primary Examiner
Art Unit 2626

MEW



MARK WALLERSON
PRIMARY EXAMINER